APPROVED TMDLS

<u>17</u> TMDLs<u>5</u> Determinations that no TMDL is needed<u>4</u> TMDLs yet to be developed

Waterbody Name*	TMDL Parameter/ Pollutant (based on 1996 and 2002 lists)	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Upper Sun River* MT41K001_010	thermal modification*	75°F Daily max 73°F Daily max during 3 consecutive days 66°F 7-day avg. temp	TMDL (daily) (kilocalories/second) = Flow (cfs) x 676 TMDL (weekly) = Flow (cfs) x 32351	WLA (Vaugn POTW MT0021440) = no increase in thermal load LA = increase shading by 22% plus grazing/irrigation BMPs	Water Quality Restoration Plan and Total Maximum Daily Loads for the Sun River Planning Area; December 2004; Montana DEQ SSTEMP and SSTEMP models used
	siltation*	eroding banks < 10% entrenchment ratio 1.4 - 2.2 14 clinger taxa % of sample filter feeders	TMDL = 35,454 tons/year	WLA = 28 tons/year (no reasonable potential) LA = 35,426 tons/year	ec 27
	suspended sediment*	u »	""	""	u 27
	nutrients*	Justification provided for no need of a nutrient TMDL. Water quality standards being met.			44 39

Waterbody Name*	TMDL Parameter/ Pollutant (based on 1996 and 2002 lists)	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Lower Sun River* MT41K001_020	thermal modification*	Justification provided for no need of a thermal TMDL. Water quality standards being met.			u »
	siltation*	eroding banks < 10% suspended sediment concentration < 42 mg/l (75 percentile)	TMDL = 76,938 tons/year	WLA = 33 tons/year (no reasonable potential) LA = 76,905 tons/year	cc 23
	suspended sediment*	<i>""</i>	<i>""</i>	« »	u "
	TDS*	Justification p Wate	· · · · · ·		
	nutrients* (nitrogen)	total nitrogen = 650 ug/l	TMDL (lbs/day) = 2.959 x flow (cfs)	WLA = 10% of TMDL LA = 57% reduction	""
	nutrients* (phosphorus)	total phosphorus = 50 ug/l	TMDL (lbs/day) = 0.269 x flow (cfs)	WLA = 10% of TMDL LA = 45% reduction	دد »،

Waterbody Name*	TMDL Parameter/ Pollutant (based on 1996 and 2002 lists)	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Muddy Creek* MT41K002_010	thermal modification*	75°F Daily max 73°F Daily max during 3 consecutive days 66°F 7-day avg. temp	TMDL (daily) (kilocalories/second) = Flow (cfs) x 676 TMDL (weekly) (megacalories/week) = Flow (cfs) x 32351	WLA = 0 LA = irrigation BMPs	cc >>
	suspended sediment*	Proper Functioning Condition for 85% of stream length	TMDL = 29,959 tons/year	WLA = 0 LA = 29,959 tons/year	""
		Sheer stress comparable to Rosgen C or E channel	(3 year average)		
	TDS*	960 mg/l year round 660 mg/l (May 1-Sep 30) SAR < 4.5 (May -Sept)	TMDL (1000lbs/day) = Flow (cfs) x 5.164	WLA = 0 LA = no increase (irrigated crop) 20% decrease (fallow crop)	cc 39
	nutrients* (nitrogen)	total nitrogen = 650 ug/l	TMDL (lbs/day) = 3.497 x flow (cfs)	WLA = 0 LA = 66% reduction	«»
	nutrients* (phosphorus)	total phosphorus = 50 ug/l	TMDL (lbs/day) = 0.269 x flow (cfs)	WLA = 0 LA = 83% reduction	
	рН*	Justification provided for no need of a pH TMDL. Water quality standards being met.			« »
	selenium (not on list)	5 ug/l chronic aquatic life 20 ug/l acute aquatic life 50 ug/l human health	TMDL (lbs/day) = 0.0269 x flow (cfs)	WLA = 0 LA = 35% reduction Feb-Apr	

Waterbody Name*	TMDL Parameter/ Pollutant (based on 1996 and 2002 lists)	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
Ford Creek* MT41K002_020	siltation*	55% shrub species cover at bank full Rosgen C channel BEHI < 10	TMDL = 966 tons/year	WLA = 0 LA = 966 tons/year	cc 33
		entrenchment ratio > 2.6 14 clinger taxa			
	nutrients* (nitrogen)	Justification provided for no need of a nutrient TMDL. Water quality standards being met.			دد ۶۶
Freezeout Lake* MT41K004_030	TDS*	2,264 mg/l TDS	TMDL = 155,056 lbs/day TDS	دد »»	
	sulfates* (sulfates included in TDS)	""	<i>""</i>	u "	
	nitrogen*	Further study needed. Waterbody/pollutant stays on 303d list.			«»
	organic enrichment/DO*	Further study needed. Waterbody/pollutant stays on 303d list.			« »

Waterbody Name*	TMDL Parameter/ Pollutant (based on 1996 and 2002 lists)	Water Quality Goal/Endpoint	TMDL	WLA LA	Supporting Documentation (not an exhaustive list of supporting documents)
	metals* (selenium)	5 ug/l chronic aquatic life 20 ug/l acute aquatic life 50 ug/l human health	TMDL = 0.55 lbs/day	WLA (Farifield POTW MTG580003) = 0.02 lb/yr LA = 5 lb/yr fallow crop 35 lb/yr irrigated land	cc 33
Gibson Reservoir* MT41K004_020	siltation*	Waterb	44 39		
	suspended sediment*	Waterb	44 33		
Willow Creek Reservoir* MT41K004_020	Non-pollutant impairment; no TMDL required				

^{*} An asterisk indicates the waterbody and pollutant were included on the State's Section 303(d) list of waterbodies in need of TMDLs.